# Final Report—Cree Lighting Confidential

Sphere Measurement

Test Number:

Growth Number(s)/Substrate ID(s)



Nominal Wavelength: 470 nm

Population Size: 1

Test Conditions: Large Sphere, 9V HS fan on

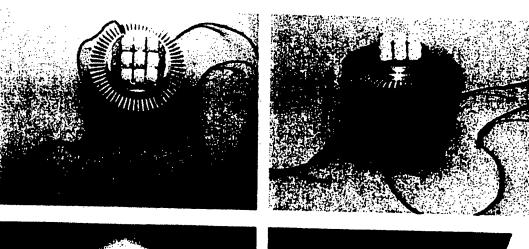
Package Features: Nine 2x2 Arrays on Submounts on ThermalTake HS; AgSn

solder paste die onto submounts; Ag DA submounts to Epoxy Domes loaded with 1.5%

Phosphor Concentration

Package ID: 1

Description: Attempt to build a 1000 Lumen Lamp





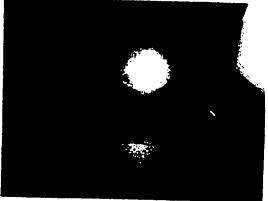


Figure 1: Pictures of the Lamp

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#### Results:

## Light Performance

The goal of 1000 lumen output was achieved at a current equivalent to 500 mA/die (total of 3 A). At 350 mA/die, the total lumen output of the lamp was 809 lumen, corresponding to a 22.5 lumen/die output. See figure 2 for Lumen vs. Current graphs.

## Electrical Performance

For the sphere measurements, the device was powered by an external power supply. The  $V_i$  measurements came directly from the readout on the power supply. Both the voltage and the current that each device received were equivalent to one-sixth the total voltage and total current, respectively. See figure 2 for  $V_i$  vs. current graph.

## Thermal Performance

The steady-state case temperature was measured on the package at each of the test currents. Ambient temperature of 22°C was measured when the device was off, and the temperature of the copper case plates reached a maximum of 72°C while running at 500 mA/die. The standard test current of 350 mA/die produced a temperature of 53°C. See figure 3 for the Steady State Case Temperature vs. Current graph.

#### Individual Lamp Data

The individual lamps were first measured before being mounted to the heat sink and ran together in test The sum of the data was about 14% lower than the luminous output of the entire lamp when all nine devices were running at once. At 350 mA, the individual lamps luminous output totaled 695 lumens, as compared with 809 lumens for the entire lamp. This is tikely due to the much more significant rise in temperature the individual lamps underwent. They were measured simply on the submount test fixture for the sphere with no fan, while the entire package was on the ThermalTake heat sink with a thermal tape adhesive interface and a 9-V fan. See figure 3 for the Sum of Individual vs. All 9 Simultaneously graph.

#### **Notes**

The package consisted of nine 2x2 arrays, for a total of 36 die. The packages were arranged such that there were three submounts in series within three parallel paths. A power supply was obtained to run the lamps at 25.4 V and 2.90 A, which is the power necessary for an output of 1000 lumen. A 9-Volt battery

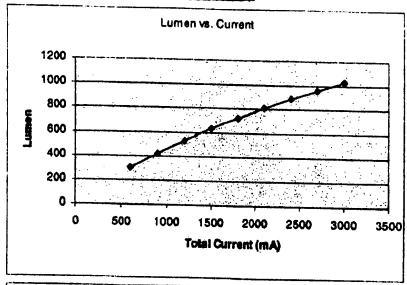
was used to power the fan on the heat sink. The thermal resistance of one device on the heat sink was measured to be 4.8 °C/W. Assuming minimal thermal crosstalk, this corresponds to the entire 1000 lumen package running with a thermal resistance of 0.5 °C/W.

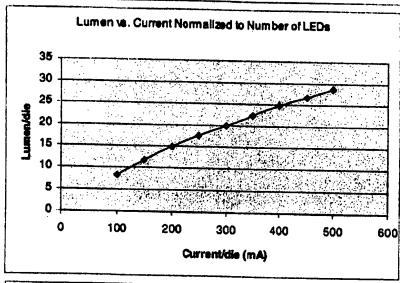
## Summary & Conclusions

A 1000 lumen lamp has been designed using current package building procedures. A total of 36 die were used to obtain this goal, each outputting 28.7 lumen at 500 mA/die. The package began to heat up at the test current, so the HS fan was necessary to keep the devices within operating range. When running at 500 mA/die, the thermal tape adhesive used to connect the individual devices to the heat sink began to melt, so lower running power will be necessary to ensure proper contact of the devices to the heat sink.

Submitted: Mark Youmans James Ibbetson

Figure 2. Charts from !





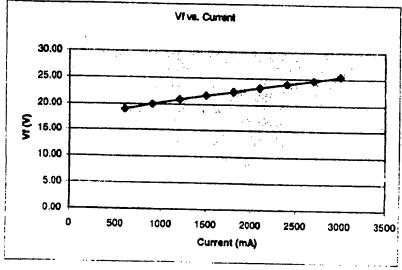
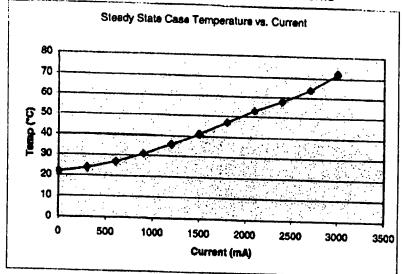
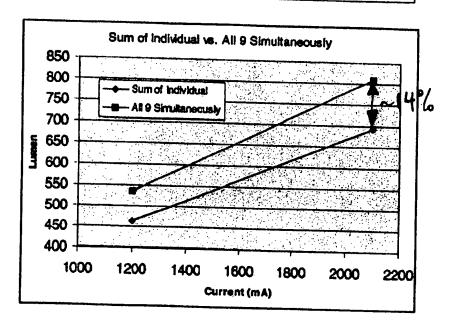
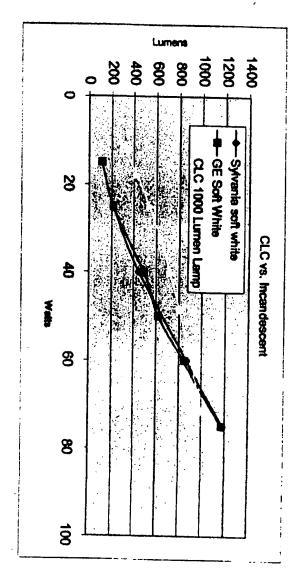


Figure 3. Charts from post-sphere measurements



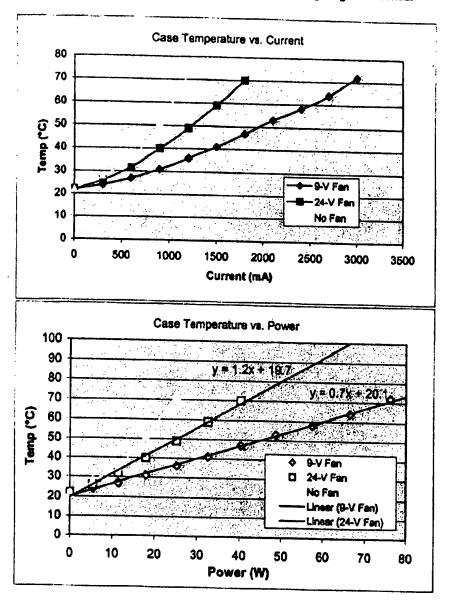


Type	Sylvania soft white					GE Soft White						CLC 1000 Lumen Lamp								
¥es		25	46	60	75	15	25	40	50	80	75	11.4	18.0	25.1	32.6	40.3	48.7	57.4	66.4	76.2
Lumen					1180		210			846		301.30	424.57	536.31	635.40	721.38	808.61	889.44	962.36	1033.63



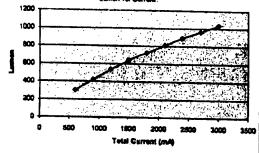
Sources:
http://members.aol.com/ejayneir/jumen.htm#HouseIncand
http://www.gelighting.com/na/downloads/02\_inc.pdf

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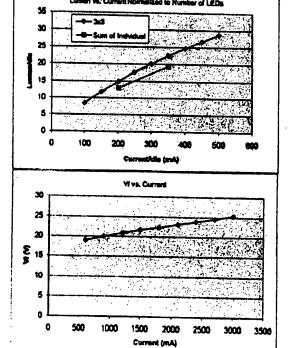


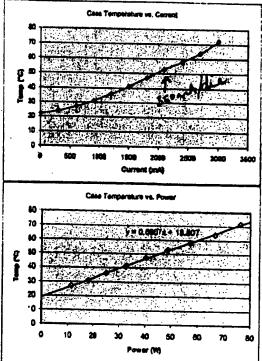
8 2x2 Arrays on Submounts on ThermelTake HS

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Fig.   7.14   21.97   18.71   400   18.52   6.28   14.2   80.737   0.00   0.10   23.0	1770   7.14   31.57   16.7   400   18.52   6.29   14.2   6.10   0.10	1770   7.14   21.57   18.7   400   18.52   6.29   14.2   6.10   0.10	1770   7.14   21.57   18.77   400   18.52   6.29   14.2   60.75   7.10	1770   714   31.57   14.71   400   14.52   6.23   14.2   60.75   400   0.10   23.0	1770   777   714   2157   18.71   400   18.82   6.29   14.5   6.20   71.5   6.20   71.5   7	1779   714   3157   18.71   400   18.82   6.29   15.42   4.00   18.92   6.29   15.42   4.00   18.92   6.29   15.42   4.00   18.92   6.29   15.42   4.00   18.92   6.29   15.42   4.00   18.92   6.29   15.42   4.00   18.92   6.29   15.42   4.00   18.92   6.29   15.42   4.00   18.92   6.29   18.42   4.00   18.92   4.29   17.72   4.00   18.18   6.00   18.27   17.72   4.00   18.18   6.00   18.27   17.72   4.00   18.18   6.00   18.27   17.72   4.00   18.18   6.00   18.27   17.72   4.00   18.18   6.00   17.72   4.00   18.18   6.00   17.72   4.00   18.18   6.00   17.72   4.00   18.18   6.00   17.72   4.00   18.18   6.00   17.72   4.00   18.18   6.00   17.72   4.00   18.18   6.00   17.72   4.00   18.18   6.00   17.72   4.00   18.18   6.00   17.71   4.00   18.18   6.00   17.71   4.00   18.18   6.00   17.71   4.00   18.18   6.00   17.71   4.00   18.18   6.00   17.71   4.00   18.18   6.00   17.71   4.00   18.18   6.00   17.71   4.00   18.18   6.00   17.71   4.00   18.18   6.00   17.71   4.00   18.18   6.00   17.71   4.00   18.20   18
Secondary Color   15.58   15.50   15.543   20.0   15.543   20.0   10.77   10.00   10	Secondary 10th -16.50	Secondary   7.04   -15.58   18.47   4.00   13.59   5.28   5.28   5.00   0.00	Style   7.04   15.89   14.47   4.00   13.59   5.40   74.54X2   0.00	State   7.04   15.58   15.47   4.00   13.59   5.28   20.05   0.00   0.	Section   7.04   -15.80   18.47   40.0   13.29   5.30   76.54.52   40.0   40.0   13.29   76.54.52   40.0   40.0   13.29   76.54.52   40.0	Section   7.04   -15.80   18.47   40.00   13.20   5.30   75.45.42   40.01   40.00   13.20   5.30   75.45.42   40.01   40.00
State   7.10   3.1.72   10.00   13.0	Secondary   Color	8100 7.07 3.128 17.58 4.00 15.81 6.05 3.43 78,079 6.00 4.09 21.0 17.0 17.0 4.09 21.0 17.0 4.09 21.0 17.0 4.09 21.0 17.0 4.09 21.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 1	8100 7.07 3.12 11.08 17.58 4.00 15.51 0.00 0.00 0.00 0.00 0.00 0.00	Second   7.117   31.126   77.25   40.00   15.816   5.106   15.37   76.2776   0.00   0.10   17.10   1	5100   7.07   31.75   10.06   4.00   15.85   6.05   16.27   7.00   0.0	8100 7.07 13.12 17.12 13.12 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0
Sign   7.20   31.28   17.55   4.00   15.81   6.05   16.2   76.2197   0.00   0.10   177.2     Sign   7.11   24.39   17.72   4.00   13.16   4.02   24.8   73.3257   0.00   0.10   177.2     Sign   7.10   31.38   17.72   4.00   15.81   6.25   11.1   72.770   0.00   0.10   22.5     Sign   7.10   30.35   17.55   4.00   15.81   6.25   17.770   0.00   0.10   22.5     Sign   7.10   30.37   17.55   4.00   15.30   5.16   10.3   77.807   0.00   0.10   22.5     Sign   7.10   30.32   17.35   4.00   15.30   5.16   10.3   77.807   0.00   0.10   12.2     Sign   7.10   30.32   17.35   4.00   15.30   5.16   10.3   77.807   0.00   0.10   12.2     Sign   7.10   30.32   17.35   4.00   15.30   5.16   10.3   77.807   0.00   0.10   12.2     Sign   7.10   30.37   16.74   4.00   15.20   3.77   16.0   77.809   0.00   0.10   12.0     Sign   7.10   30.37   16.74   4.00   15.20   3.77   16.0   78.37   0.00   0.10   12.0     Sign   7.10   30.37   16.74   4.00   15.20   3.77   16.0   78.37   0.00   0.10   2.10     Sign   7.10   30.37   16.74   4.00   15.30   5.90   77.809   0.00   0.10   2.10     Sign   7.10   30.37   16.74   4.00   15.30   5.90   77.809   77.809   0.00   0.10   2.10     Sign   7.10   30.37   16.74   4.00   15.30   3.90   77.809   77.809   0.00   0.10   2.10     Sign   7.10   30.37   16.74   4.00   15.30   3.90   77.809   77.809   0.00   0.10   2.10     Sign   7.10   30.37   16.74   4.00   15.30   3.90   77.809   77.809   77.809   0.00   0.10   2.10     Sign   7.10   3.10   16.20   3.10   3	Since   7.20   31.78   17.55   4.00   15.81   6.05   16.2 Pt.27197   0.00   0.10   27.10     Since   7.11   24.39   17.75   4.00   15.81   6.05   13.227   0.00   0.10   17.10     Since   7.10   31.26   17.75   4.00   15.81   6.25   11.11   76.770   0.00   0.10   17.10     Since   7.10   31.26   17.75   4.00   15.81   6.25   11.11   76.770   0.00   0.10   17.20     Since   7.00   3.00   17.25   4.00   15.81   6.25   17.11   76.770   0.00   0.00   12.20     Since   7.10   31.25   17.25   4.00   15.81   6.25   17.17   77.250   0.00   0.10   12.20     Since   7.10   30.22   17.35   4.00   15.30   6.55   77.77   77.250   0.00   0.10   12.20     Since   7.10   30.22   17.35   4.00   15.30   6.55   77.77   77.250   0.00   0.10   12.20     Since   7.10   30.22   17.35   4.00   15.30   6.55   77.77   77.250   0.00   0.10   12.10     Since   7.10   30.22   17.35   4.00   15.30   6.55   77.77   77.250   0.00   0.10   12.10     Since   7.10   30.22   17.35   4.00   15.30   6.55   77.77   77.250   0.00   0.10   12.10     Since   7.10   30.22   17.35   4.00   15.30   6.55   77.77   6.0   78.57   0.00   0.10   12.10     Since   7.10   30.22   17.35   4.00   15.30   6.55   77.77   6.0   78.57   0.00   0.10   12.10     Since   7.10   30.22   17.35   4.00   15.20   6.55   77.77   6.0   78.57   0.00   0.10   12.10     Since   7.10   30.27   16.74   4.00   15.20   6.55   77.70   0.00   0.10   12.10     Since   7.10   30.27   10.20   1.24   10.20   0.00   0.10   1.24     Since   7.10   30.27   10.20   1.24   10.20   0.00   0.10   1.24     Since   7.10   30.27   10.20   1.24   10.20   0.00   0.10   1.24     Since   7.10   30.27   10.20   1.24   10.20   0.00   0.10   1.24     Since   7.10   30.27   10.20   0.00   0.10   1.24     Since   7.10   30.20   1.24   10.20   0.20   0.00   0.10   1.24     Since   7.10   30.20   1.24   10.20   0.20   0.00   0.10   1.24     Since   7.	Secondary   Seco	\$\frac{8400}{8400}   7.20	Section   7.20   51.28   17.55   4.00   15.81   6.05   34.8   76.2197   0.00   0.10   17.10     New York   7.11   24.39   17.72   4.00   15.18   6.05   34.8   72.237   0.00   0.10   17.10     Section   7.10   21.38   17.73   4.00   13.18   6.05   11.1   75.770   0.00   0.10   12.25     Section   7.10   21.38   17.53   4.00   13.51   6.00   11.1   75.770   0.00   0.10   12.25     Section   7.10   21.38   17.51   4.00   13.51   6.00   17.27   17.270   0.00   0.10   12.25     Section   7.10   21.38   17.51   4.00   13.24   6.05   17.277   0.00   0.10   12.10     Section   7.11   21.38   17.54   4.00   13.24   6.05   17.27   0.00   0.10   12.10     Section   7.11   21.38   17.50   4.00   13.24   6.05   17.27   0.00   0.10   12.10     Section   7.11   21.38   17.50   4.00   13.24   6.05   12.7   13.07   0.00   0.10   12.10     Section   7.11   21.38   17.50   4.00   13.24   6.05   12.7   13.07   0.00   0.10   12.10     Section   7.11   21.24   17.24   4.00   13.24   21.24   13.27   0.00   0.10   13.00     Section   7.12   21.24   13.07   13.07   13.07   0.00   0.10   13.07     Section   7.12   21.24   13.07   13.07   13.07   13.07   13.07   0.00   0.10   13.00     Section   7.12   21.24   13.07   13.07   13.07   13.07   13.07   13.07   13.07     Section   7.12   21.24   13.07   13.07   13.07   13.07   13.07   13.07   13.07   13.07     Section   7.10   23.20   13.27   4.00   13.68   13.7   13.07	Fife   7.20   51.28   17.55   400   15.81   6.05   16.2 76.278   0.00   0.00   21.0   17.0   21.0	1.00   1.00
17.00   7.11   24.39   17.72   4.00   13.16   4.02   24.6   73.257   0.00   -0.10   177.0     17.00   7.00   30.56   17.72   4.00   13.67   6.20   17.7706   0.00   -0.10   34.0     17.00   7.00   -30.56   17.72   4.00   13.67   0.20   0.10   0.10   0.00     17.00   7.00   -30.47   17.53   4.00   13.74   6.14   19.4   76.967   0.00   -0.10   22.5     17.00   7.00   -30.47   17.54   4.00   13.20   5.16   10.3   77.807   0.00   -0.10   12.5     17.00   7.10   -30.27   17.35   4.00   13.24   6.57   17.775   0.00   -0.10   12.5     17.00   7.10   -30.22   17.35   4.00   13.24   6.57   17.775   0.00   -0.10   12.5     17.00   7.10   -30.22   17.35   4.00   13.24   6.57   16.77   16.0   77.8096   0.00   -0.10   17.0     18.00   7.10   -30.22   17.35   4.00   15.20   3.77   16.0   16.0   0.10   0.10   12.0     18.00   7.11   -30.22   17.35   4.00   15.20   3.77   16.0   16.0   0.10   0.10   12.0     18.00   7.12   -30.22   17.35   4.00   15.20   3.77   16.0   77.8096   0.00   0.10   27.0     18.00   7.12   -30.22   17.35   4.00   15.20   3.77   16.0   0.00   0.10   27.0     18.00   7.13   -30.27   18.74   4.00   15.20   2.50   78.096   7.00   0.10   2.20     18.00   7.10   -30.27   18.74   4.00   15.20   2.50   78.096   7.00   0.10   2.20     18.00   7.10   -30.27   18.74   4.00   15.20   3.00   3.00   0.10   0.10   0.10   0.10     18.00   7.10   -30.27   18.74   4.00   15.20   3.00   3.00   0.10   0.10   0.10   0.10     18.00   7.10   -30.27   18.74   4.00   15.20   3.00   3.00   0.10   0.10   0.10   0.10   0.10     18.00   7.10   -30.27   18.74   4.00   15.20   3.00   3.00   3.00   3.00   0.10	Sign   7.14   24.39   17.72   4.00   13.18   5.00   2.10   17.70   4.00   13.18   5.00   2.10   17.70   4.00   13.48   13.48   13.27   0.00   2.10   12.20   13.48   13.48   13.27   0.00   2.10   13.20   13.48   13.20   1	Since   7.11   24.39   17.73   4.05   13.18   4.02   24.4   77.25   0.00   0.10   177.0     Since   7.10   21.39   17.73   4.05   13.44   5.50   13.4   12.77   0.00   0.10   12.0     Since   7.10   21.35   17.51   4.00   15.61   6.05   17.2   77.465   0.00   0.00   16.25     Since   7.10   20.25   17.51   4.00   15.61   6.05   17.2   77.465   0.00   0.00   22.5     Since   7.10   20.27   17.45   4.00   15.61   6.05   77.7   77.255   0.00   0.00   22.5     Since   7.11   20.27   17.50   4.00   13.24   6.07   14.7   77.255   0.00   0.00   22.5     Since   7.10   20.27   17.50   4.00   13.24   6.07   14.50   6.07   0.00   0.10   22.0     Since   7.10   20.27   17.50   4.00   15.25   2.00   2.00   0.00   22.0     Since   7.10   20.27   17.50   4.00   15.25   2.00   2.00   0.00   0.10   22.0     Since   7.10   20.27   17.50   4.00   15.20   2.00   12.70   0.00   0.10   22.0     Since   7.10   20.27   17.50   4.00   15.20   2.00   2.00   0.10   22.0     Since   7.10   20.27   17.50   4.00   15.20   2.00   2.00   0.10   22.0     Since   7.10   20.27   14.50   2.00   2.00   0.10   22.5     Since   7.10   20.27   14.50   2.00   2.00   2.00   2.00   2.00     Since   7.10   20.27   12.00   2.00   2.00   2.00   2.00     Since   7.10   20.27   12.00   2.00   2.00   2.00   2.00     Since   7.10   20.27   12.00   2.00   2.00   2.00   2.00     Since   7.10   20.27   14.50   2.00   2.00   2.00   2.00   2.00     Since   7.10   20.27   14.50   2.00   2.00   2.00   2.00   2.00   2.00     Since   7.10   20.27   14.50   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.	Sign   7.11   24.39   17.73   4.09   13.18   4.02   24.6   13.4   13.277   0.00   0.10   177.0     Sign   7.10   31.28   17.73   4.09   13.4   5.50   13.4   13.277   0.00   0.10   12.2     Sign   7.10   31.28   17.51   4.00   15.61   6.00   17.2   77.462   0.00   0.00   12.2     Sign   7.10   30.25   17.51   4.00   15.61   6.00   17.2   77.462   0.00   0.10   12.2     Sign   7.11   31.61   17.81   4.00   15.61   6.00   17.2   77.463   0.00   0.10   12.2     Sign   7.11   31.61   17.81   4.00   14.30   6.00   10.00   0.10   10.00     Sign   7.11   30.27   17.20   4.00   14.30   6.00   10.00   0.10   10.00     Sign   7.11   30.27   17.20   4.00   14.30   6.00   10.00   0.10   10.00     Sign   7.11   30.27   17.30   4.00   14.30   6.00   10.00   0.10   10.00     Sign   7.11   30.27   16.30   4.00   16.20   6.00   10.00   0.10   10.00     Sign   7.10   30.27   16.30   4.00   16.20   5.20   10.00   0.10   10.00     Sign   7.10   30.27   16.30   4.00   16.20   5.20   10.00   0.10   10.00     Sign   7.10   30.27   16.30   4.00   16.20   6.00   6.00   0.10   10.00     Sign   7.10   30.27   16.30   4.00   16.20   6.00   0.10   10.00     Sign   7.10   30.27   16.30   4.00   16.20   6.00   0.10   10.00     Sign   7.10   30.20   10.00   14.60   6.00   10.00   0.10   10.00     Sign   7.10   30.20   10.00   14.60   6.00   14.60   12.20   10.00   0.10   10.00     Sign   7.10   30.20   10.00   14.60   6.00   12.20   10.00   0.10   10.00     Sign   7.10   30.20   10.00   14.60   6.00   12.20   10.00   0.10   10.00     Sign   7.10   30.20   10.20   10.00   14.60   10.20   10.00   0.10   10.00     Sign   7.10   30.20   10.00   14.60   6.00   14.60   1	Secondary   1.11   24.38   17.73   4.00   13.18   4.02   24.8   73.257   0.00   0.10   177.8     Secondary   1.00   20.58   17.75   4.00   15.44   5.00   13.44   13.67   0.00   0.10   0.10   0.10     Secondary   1.00   23.28   17.57   4.00   15.61   6.20   17.1   74.70   0.00   0.00   0.10     Secondary   1.00   23.28   17.57   4.00   15.51   0.00   0.10   0.10   0.10     Secondary   1.00   23.28   17.53   4.00   15.51   0.10   17.70   0.00   0.10   0.10     Secondary   1.10   23.02   17.53   4.00   13.30   15.24   0.10   17.70   0.00   0.10   0.10     Secondary   1.10   23.02   17.50   4.00   14.30   6.56   17.7   74.70   0.00   0.10   0.10     Secondary   1.10   23.02   17.50   4.00   14.30   6.56   17.7   74.70   0.00   0.10   0.10     Secondary   1.10   23.02   17.50   4.00   14.30   6.56   17.7   74.70   0.00   0.10   27.0     Secondary   1.10   23.02   17.50   4.00   14.30   6.56   17.7   74.70   0.00   0.10   27.0     Secondary   1.10   23.02   17.50   4.00   14.30   6.56   17.7   74.70   0.00   0.10   27.0     Secondary   1.10   23.20   14.50   24.40   24.40   24.40   0.00   0.10   27.0     Secondary   1.10   23.20   14.20   24.40	Series   7111   24.39   1772   4409   14.18   8.432   70.00   40.10   177.0     Series   7100   51.30   17.72   4409   14.44   6.89   11.1   74.779   0.00   0.00   142.0     Series   7100   51.30   17.52   4409   15.61   6.29   11.1   74.779   0.00   0.00   142.0     Series   7100   51.30   17.52   4409   15.61   6.29   17.7   77.449   0.00   0.00   0.00   142.0     Series   7100   51.30   17.54   4409   15.51   17.20   17.20   10.00   0.10   17.0     Series   7101   51.30   17.54   4409   15.50   15.50   16.24   17.20   17.20   10.00   0.10   17.0     Series   710   50.30   17.50   4409   15.20   15.20   16.24   17.20   10.00   0.10   17.0     Series   7101   50.30   17.50   4409   15.20   15.20   16.24   17.20   10.00   0.10   17.0     Series   7101   50.30   17.50   4409   15.20   16.24   17.20   17.20   0.00   0.10   17.0     Series   710   50.30   17.50   4409   15.20   16.24   17.20   17.20   0.00   0.10   17.0     Series   7101   50.30   17.50   4409   17.50   17.20   17.20   0.00   0.10   17.0     Series   7101   7101   7101   17.20   17.20   0.00   0.10   17.0     Series   7101   7101   7101   17.20   0.00   0.10   17.0     Series   7101   7101   7101   17.20   0.00   0.10   17.0     Series   7101   7101   17.20   0.00   0.10   17.0     Series   7101   7101   17.20   0.00   0.10   0.10   0.10   17.0     Series   7101   7101   17.20   0.00   0.10   0.10   0.10   0.10   0.10   0.10     Series   7101   7101   17.20   0.00   0.10   0.	Sign   7.11 - 34.39   17.73   4.00   13.18   6.20   13.18   0.00   0.10   17.70     From   7.00   -30.50   17.73   4.00   13.61   6.20   11.11   78.770   0.00   0.10   0.10     From   7.00   -30.50   17.73   4.00   13.61   6.20   11.11   78.770   0.00   0.10   0.10     From   7.00   -30.50   17.73   4.00   13.61   6.20   11.11   78.770   0.00   0.10   0.10     From   7.00   -30.50   17.53   4.00   13.61   6.20   11.11   78.770   0.00   0.10   22.5     From   7.00   -30.51   17.50   4.00   13.51   6.20   17.72   77.445   0.00   0.10   22.5     From   7.00   -30.51   17.50   4.00   13.50   5.60   10.7   77.250   0.00   0.10   27.5     From   7.00   -30.51   17.50   4.00   13.50   5.60   10.7   77.250   0.00   0.10   27.5     From   7.00   -30.51   17.50   4.00   13.50   5.60   10.7   77.250   0.00   0.10   27.5     From   7.00   -30.51   17.50   4.00   13.50   5.60   10.7   77.250   0.00   0.10   27.5     From   7.00   -30.51   17.50   4.00   13.50   5.60   10.7   77.250   0.00   0.10   27.5     From   7.00   -30.51   17.50   4.00   13.50   5.60   10.7   77.250   0.00   0.10   27.5     From   7.00   -30.51   17.50   4.00   13.50   5.60   10.7   77.250   0.00   0.10   27.5     From   7.00   -30.51   17.50   4.00   13.50   5.60   13.50   10.7   77.250   0.10   0.10   27.5     From   7.00   -30.51   17.50   4.00   13.50   1
17.00   7.00   31.20   17.72   400   13.54   5.00   11.77   77.770   0.00   0	10000   7.06   3.04   17.72   4.00   15.61   6.65   17.2   77.4463   0.00   0.00   15.25     5460   7.06   3.047   17.54   4.00   15.61   6.65   17.2   77.4463   0.00   0.00   12.25     5560   7.07   31.26   17.54   4.00   13.50   11.1   78.776   0.00   0.00   22.5     5560   7.07   31.61   17.54   4.00   13.24   5.07   10.3   77.77726   0.00   0.00   22.5     5560   7.07   31.61   17.55   4.00   13.24   5.07   16.2   77.7726   0.00   0.00   22.5     5560   7.07   31.61   17.55   4.00   13.24   5.07   16.2   77.7726   0.00   0.00   22.5     5560   7.07   30.22   17.55   4.00   13.24   5.07   16.2   77.7726   0.00   0.00   22.5     5560   7.07   30.22   17.55   4.00   13.24   5.07   16.2   77.726   0.00   0.00   0.00     5560   7.07   30.22   17.55   4.00   13.24   5.07   16.2   78.25   0.00   0.00   0.00     5560   7.17   20.23   17.55   4.00   13.24   5.05   77.7726   0.00   0.00   0.00     5560   7.18   30.37   16.74   4.00   13.06   5.25   78.136   0.00   0.00   0.00     5560   7.10   30.22   1.04   4.00   13.06   6.05   6.2   78.136   0.00   0.00   0.00     5560   7.10   30.22   1.04   4.00   14.60   6.05   6.2   78.136   0.00   0.00   0.00     5560   7.10   7.10   30.22   1.04   4.00   14.50   6.05   6.2   78.136   0.00   0.00   0.00     5560   7.10   7.10   30.22   1.04   0.00   14.50   6.05   0.00   0.00   0.00     5560   7.10   7.10   30.22   1.04   0.00   14.50   6.05   0.00   0.00   0.00   0.00     5560   7.10   7.10   30.22   1.04   0.00   0.	10	Name	Name   7.10   31.25   17.72   400   18.67   6.05   11.77   77.469   0.00   0.00   18.25   6.00   7.10   7	Section   7.08   20.26   17.72   4.00   18.87   6.20   17.3   77.4450   0.00   0.00   22.5     Section   7.06   20.26   17.57   4.00   18.87   6.20   17.2   77.4450   0.00   0.00   22.5     Section   7.06   20.26   17.57   4.00   18.87   6.20   17.2   77.4450   0.00   0.00   22.5     Section   7.07   30.67   17.53   4.00   18.87   6.20   7.77   77.250   0.00   0.00   22.5     Section   7.07   30.67   17.30   4.00   18.87   6.20   7.77   77.250   0.00   0.00   22.5     Section   7.07   30.67   17.30   4.00   18.87   6.20   7.77   77.250   0.00   0.00   27.0     Section   7.07   30.67   17.30   4.00   18.87   6.20   7.77   77.250   0.00   0.00   27.0     Section   7.07   30.67   17.30   4.00   18.87   6.20   0.00   0.00   0.00   0.00     Section   7.07   30.67   18.77   4.00   18.27   6.20   78.877   0.00   0.00   0.00   0.00     Section   7.07   30.67   18.77   4.00   18.77   18.00   77.00   0.00   0.00   0.00     Section   7.07   30.67   18.27   4.00   18.27   4.00   18.27   4.00   18.27   4.00   0.00   0.00   0.00     Section   7.07   30.67   18.27   4.00   18.27   4.00   18.27   4.00   0.00   0.00   0.00   0.00     Section   7.07   30.67   18.27   4.00   18.27   4.00   18.27   4.00   0.00   0.00   0.00   0.00   0.00     Section   7.07   30.60   18.27   4.00   18.20   4.00   18.20   4.00   0.00   0.00   0.00   0.00     Section   7.07   30.60   18.27   4.00   18.20   4.00   18.20   4.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00     Section   7.07   30.60   18.27   4.00   18.20   4.00   0	Marco   7,08   20,25   77,55   400   15,61   6,25   77,774   77,4467   0,00   12,54   6,25   77,774   77,4467   0,00   12,54   6,25   77,774   77,4467   0,00   12,54   6,25   77,774   77,4467   0,00   12,54   6,25   77,774   77,4467   0,00   12,54   6,25   77,774   77,54   77
Secondary   7.10   21.25   17.55   400   15.61   10.2   77.4463   0.00   0.00   0.00   0.00     Secondary   7.06   20.25   17.55   400   15.76   6.14   10.4   78.697   0.00   0.10   0.11   22.5     Secondary   7.13   21.06   17.46   400   13.24   6.65   7.7   77.252   0.00   0.10   22.0     Secondary   7.13   21.06   17.46   400   13.24   6.65   7.7   77.252   0.00   0.10   22.0     Secondary   7.13   21.06   17.46   400   13.24   6.65   7.7   77.252   0.00   0.10   22.0     Secondary   7.13   21.06   17.25   400   13.24   6.65   7.7   77.252   0.00   0.10   22.0     Secondary   7.13   21.06   17.46   400   15.22   2.77   16.0   78.69   70.00   0.10   22.0     Secondary   7.13   20.27   17.25   400   15.22   2.77   16.0   78.69   70.00   0.10   22.0     Secondary   7.13   20.27   18.74   400   15.25   2.25   2.26   20.2   78.57   0.00   0.10   22.0     Secondary   7.13   20.27   18.74   400   15.25   2.26   20.2   78.57   0.00   0.10   22.0     Secondary   7.13   20.27   18.74   400   15.25   2.26   20.2   78.57   0.00   0.10   22.0     Secondary   7.10   20.27   20.07   20.07   20.07   20.07   20.07   20.07     Secondary   7.10   20.07   20.07   20.07   20.07   20.07   20.07   20.07     Secondary   7.10   20.07   20.0	Column   C	Column   C	Column   C	Columbia	Color   Colo	Second   7.10   28.35   77.57   40.0   15.61   6.05   77.77   77.450   0.00   0.00   22.5
1224   7.10   3.0.47   17.63   400   15.74   6.14   19.4   71.6971   0.00   0.10   15.25	100   1.06   30.47   17.53   400   15.74   6.14   19.4   76.567   0.00   0.19   15.25	Secondary   10   17.06   30.47   17.53   400   15.74   6.14   19.4   78.697   0.00   -0.19   15.25     Secondary   20.25   17.25   400   15.30   5.19   10.3   77.807   0.00   -0.19   15.25     Secondary   20.25   17.35   400   14.35   5.65   7.7   77.7253   0.00   -0.19   12.20     Secondary   20.25   17.35   400   14.35   5.65   7.7   77.7253   0.00   -0.19   12.20     Secondary   20.25   17.35   400   14.35   5.65   7.7   77.2253   0.00   -0.19   12.10     Secondary   20.25   17.35   400   15.25   3.77   16.0   78.57   0.00   -0.19   12.10     Secondary   20.25   17.35   400   15.25   3.77   16.0   78.57   0.00   -0.10   22.0     Secondary   20.25   20.25   20.25   20.25   20.25   20.25     Secondary   20.25   20.25   20.25   20.25   20.25   20.25   20.25     Secondary   20.25   20.25   20.25   20.25   20.25   20.25   20.25   20.25     Secondary   20.25   20.25   20.25   20.25   20.25   20.25   20.25   20.25     Secondary   20.25   20.25   20.25   20.25   20.25   20.25   20.25   20.25   20.25   20.25   20.25     Secondary   20.25   20.25   20.25   20.25   20.25   20.25   20.25   20.25   20.25	Second   7.08   30.47   17.53   400   15.74   6.14   18.4   76.897   0.00   43.19   10.55	Second   7.00   30.47   17.53   400   18.74   6.14   18.4   78.897   0.00   0.10   0	Column   C	Columbia
1223   1.03   1.746   400   13.30   5.19   10.3   77.8071   0.00   0.10   163.5     11.30   17.35   400   13.24   6.65   7.7   77.253   0.00   0.10   12.20     11.30   7.10   30.22   17.35   400   13.24   6.65   7.7   77.253   0.00   0.10   15.20     10.00   7.10   30.22   17.35   400   15.22   5.77   16.0   77.0000   0.10   27.0     10.00   7.10   30.21   17.00   4.00   15.22   5.77   16.0   77.0000   0.10   27.0     10.00   7.10   30.21   18.74   4.00   15.25   5.20   77.077   0.00   0.10   27.0     10.00   7.10   30.27   18.74   4.00   15.25   30.20   77.077   0.00   0.10   27.0     10.00   7.10   30.27   18.74   4.00   15.20   30.27   30.27   30.27   30.27     10.00   7.10   30.27   18.74   4.00   15.20   30.27   30.27   30.27   30.27     10.00   7.10   30.27   18.74   4.00   15.20   30.27   30.27   30.27   30.27   30.27     10.00   2.10   2.20   10.27   30.27   30.27   30.27   30.27   30.27   30.27     10.00   2.10   2.20   10.27   30.27	1224   7.10   2.106   17.46   400   13.30   5.19   10.3   77.8071   0.00   0.10   163.5     11	Figure   F	17.00   7.07   31.06   17.40   400   13.30   5.19   10.3   77.507   0.00   0.10   16.25     20.00   7.01   3.01.06   17.50   400   14.36   6.56   7.7   77.203   0.00   0.09   22.0     20.00   7.11   2.02   17.55   400   13.24   5.07   16.0   78.57   0.00   0.09   12.0     20.00   7.11   2.02   17.55   400   15.22   3.77   16.0   78.57   0.00   0.10   22.0     20.00   7.13   3.037   16.74   400   15.20   3.77   16.0   78.57   0.00   0.10   22.0     20.00   7.13   3.037   16.74   400   15.69   5.56   20.5   78.57   0.00   0.10   22.0     20.00   7.10   2.03.0   16.71   400   15.69   2.56   41.7   78.00   0.00   0.10   22.5     20.00   2.10   2.20   1.60   1.60   1.60   1.60   1.60   1.60   1.60   1.60   1.60     20.00   2.10   2.20   1.60   1.60   1.60   1.60   1.60   1.60   1.60   1.60   1.60     20.00   2.10   2.20   1.60   1.60   1.60   1.60   1.60   1.60   1.60   1.60   1.60     20.00   2.10   2.20   1.60   1	100   17.07   31.06   17.40   400   13.30   5.19   10.3   77.80   0.10   10.3   0.10   10.3   0.10   10.3   0.10   0.10   10.3   0.10	Second   7.77   31.00   17.49   400   13.30   5.19   10.3   77.72550   0.00   0.10   15.15	17.00   17.0
\$100   7.10   30.22   17.35   400   14.36   5.65   7.7 77.2563   0.00   -0.09   22.0     \$100   7.10   30.22   17.35   400   15.20   5.07   16.47   76.00   -0.09   107.0     \$100   7.17   -30.22   17.35   400   15.20   2.17   16.0   76.00   -0.09   107.0     \$100   7.16   -30.61   16.74   400   15.20   5.07   16.07   76.00   -0.10   22.0     \$100   7.16   -30.61   16.74   400   15.29   5.66   20.8 76.877   0.00   -0.10   22.0     \$100   7.16   -30.61   16.74   400   15.59   5.66   20.8 76.877   0.00   -0.10   22.0     \$100   7.18   -30.37   16.74   400   15.59   5.66   20.8 76.877   0.00   -0.10   22.0     \$100   7.18   -30.37   16.74   400   15.69   5.60   17.707   0.00   -0.10   22.0     \$100   7.18   -30.37   16.74   30.27   30.27   30.27   30.27   30.27     \$100   7.10   -30.37   30.37   30.37   30.37   30.37   30.37     \$100   -30.37   30.37   30.37   30.37   30.37   30.37   30.37   30.37     \$100   -30.37   30.37   30.37   30.37   30.37   30.37   30.37   30.37   30.37     \$100   -30.37   30.37   30.37   30.37   30.37   30.37   30.37   30.37   30.37   30.37     \$100   -30.37   3	Sign   7.13   Si 61   17.36   400   14.36   6.65   7.7   77.2553   0.00   -0.09   22.0	1,000   7,10   30,22   17,35   400   14,36   5,56   7,7 77,255   0,00   -0,09   12,0     5100   7,10   30,22   17,35   400   13,24   5,07   16,07   74,009   0,00   -0,09   167,0     5200   7,17   30,27   17,05   400   16,20   2,10   17,009   0,00   -0,10   22,0     1000   7,16   29,61   16,74   400   15,29   5,96   20,874   0,00   -0,10   27,0     1000   7,16   29,61   16,74   400   15,29   5,96   20,874   0,00   -0,10   27,0     1000   7,16   29,61   16,74   400   15,29   20,874   20,80   -0,10   27,0     1000   7,16   29,61   16,74   400   15,29   20,874   20,80   -0,10   27,0     1000   7,16   29,61   16,74   400   14,60   5,29   74,126   -0,00   -0,10   27,0     1000   7,16   29,61   16,74   400   14,60   5,69   14,90	1,10   1,10	1,10   1,10	1.00	1.00
\$100   7.10   30.22   17.35   400   13.24   5.07   16.81 78.3432   0.00   -0.09   167.0     \$100   7.17   -29.53   17.00   400   16.20   3.50   16.71   16.00   0.10   27.0     \$100   7.18   -29.54   18.64   400   16.20   3.50   18.57   0.00   -0.10   27.0     \$100   7.18   -29.54   18.64   400   15.29   5.66   20.8   78.57   0.00   -0.10   27.0     \$100   7.18   -29.54   18.74   400   13.09   6.04   6.2   78.136   0.00   0.10   27.0     \$100   7.18   -29.53   18.74   400   13.09   6.04   6.2   78.136   0.00   0.10   27.5     \$100   7.18   -29.53   18.74   400   15.69   4.4   78.64   15.64   2.00   0.10   27.5     \$100   7.18   -29.53   18.74   400   15.69   6.04   15.64   2.00   0.00   0.00     \$100   -2.18   0.00   0.00   0.00   0.00     \$100   -2.18   0.00   0.00   0.00   0.00     \$100   -2.18   0.00   0.00   0.00   0.00     \$100   -2.18   0.00   0.00   0.00   0.00     \$100   -2.18   0.00   0.00   0.00   0.00     \$100   -2.18   0.00   0.00   0.00   0.00     \$100   -2.18   0.00   0.00   0.00   0.00     \$100   -2.18   0.00   0.00   0.00   0.00     \$100   -2.18   0.00   0.00   0.00     \$100   -2.18   0.00   0.00   0.00     \$100   -2.18   0.00   0.00   0.00     \$100   -2.18   0.00   0.00   0.00     \$100   -2.18   0.00   0.00   0.00     \$100   -2.18   0.00   0.00   0.00     \$100   -2.18   0.00   0.00   0.00     \$100   -2.18   0.00   0.00   0.00     \$100   -2.18   0.00   0.00   0.00     \$100   -2.18   0.00   0.00   0.00     \$100   -2.18   0.00   0.00   0.00     \$100   -2.18   0.00   0.00   0.00     \$100   -2.18   0.00   0.00   0.00     \$100   -2.18   0.00   0.00   0.00     \$100   0.00   0.00   0.00     \$100   0.00   0.00   0.00     \$100   0.00   0.00   0.00     \$100   0.00   0.00   0.00     \$100   0.00   0.00   0.00     \$100   0.00   0.00   0.00     \$100   0.00   0.00   0.00     \$100   0.00   0.00   0.00     \$100   0.00   0.00   0.00     \$100   0.00   0.00   0.00     \$100   0.00   0.00   0.00     \$100   0.00   0.00   0.00     \$100   0.00   0.00   0.00     \$100   0.00   0.00   0.00     \$100   0.00   0.00   0.00	\$100   7.10   30.22   17.35   400   13.24   5.07   16.81 78.3432   0.00   -0.109   167.0     \$100   7.17   -30.52   17.00   400   15.20   3.50   16.77   16.009   0.10   27.0     \$100   7.10   -30.54   18.89   4.00   15.20   3.50   16.77   10.00   0.10   27.0     \$100   7.10   -30.54   18.89   -4.00   15.20   2.50   2.50   18.57   0.00   0.10   27.0     \$100   7.10   -30.54   18.74   4.00   13.00   6.04   6.27   12.80   0.00   0.10   27.0     \$100   7.10   -30.54   18.74   4.00   13.00   6.04   6.27   12.80   0.00   0.10   27.0     \$100   7.10   -30.54   18.74   4.00   13.00   4.40   6.00   4.40	Sign   7.10   30.22   17.35   400   13.24   5.07   16.0   7.00   0.10   0.10   0.10	Store   7.10   30.22   17.35   400   13.24   5.07   16.8   76.3432   0.00   -0.09   167.0     Store   7.17   -29.53   17.00   400   16.20   3.50   16.7   76.009   0.00   -0.10   27.0     Store   7.17   -29.53   17.00   400   16.20   3.50   16.7   76.009   0.00   -0.10   27.0     Store   7.18   -30.54   16.74   400   15.20   2.50   20.8   76.372   0.00   -0.10   27.0     Store   7.18   -30.37   16.74   400   15.60   2.24   2.24   2.24   2.24   2.24   2.24     Store   7.10   -28.30   16.27   400   15.60   6.04   4.2   2.44   3.0   0.00   -0.10   2.2     Store   7.10   -28.30   16.27   400   15.60   6.04   4.2   2.44   3.0   0.00   -0.10   2.2     Store   7.10   -28.30   16.27   400   15.60   6.04   4.2   2.44   3.00   0.00   0.01   2.4     Store   7.10   -28.30   16.27   400   15.60   4.2   2.44   3.00   0.00   0.01   2.4     Store   7.10   -28.30   10.27   4.00   1.43   0.36   4.3   2.44   3.00   0.00   0.01   2.4     Store   7.10   -28.30   1.04   0.01   1.43   0.36   4.3   2.44   3.00   0.00   0.01   2.4     Store   7.10   -28.30   1.04   0.00   1.43   0.36   0.00   0.00   0.00   0.00   0.00     Store   7.10   -28.30   1.04   0.00   0.0	Store   7.10   -30.22   17.35   400   13.24   5.07   14.68   74.6898   0.00   -0.10   21.0   0.00   0.10	Strong   7.10   30.22   17.35   400   15.24   5.07   16.4   78.3422   0.00   -0.10   157.0     Change   7.17   20.25   17.05   4.00   15.20   2.60   16.7   78.57   0.00   -0.10   27.0     Change   7.17   20.35   16.74   4.00   15.20   2.60   2.00   78.57   0.00   -0.10   27.0     Change   7.16   23.61   16.78   4.00   15.50   2.60   2.00   2.00   -0.10   27.0     Change   7.16   23.61   16.78   4.00   15.50   2.60   2.00   2.00   -0.10   27.0     Change   7.16   23.61   16.78   4.00   15.50   2.00   2.00   2.00   -0.10   2.00     Change   7.10   23.20   18.77   4.00   15.60   4.20   2.40   2.00   -0.12   2.00     Change   7.10   2.83   18.77   4.00   15.60   4.20   2.40   2.00   -0.12   2.00     Change   7.10   2.83   18.77   4.00   15.60   4.20   2.40   2.00   -0.12   2.00     Change   7.10   2.83   1.00   0.00   1.43   0.00   0.00   2.00     Change   7.10   2.83   1.00   0.00   1.43   0.00   0.00   0.00   2.00     Change   7.10   7.10   7.10   7.10   0.00   0.00   0.00   0.00     Change   7.10   7.10   7.10   0.00   0.00   0.00   0.00     Change   7.10   7.10   0.00   0.00   0.00   0.00   0.00     Change   7.10   0.00   0.00   0.00   0.00   0.00   0.00     Change   7.10   0.00   0.00   0.00   0.00   0.00     Change   7.10   0.00   0.00   0.00   0.00   0.00   0.00   0.00     Change   7.10   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00     Change   7.10   0.00	Color   7.10   30.22   17.35   400   13.24   5.07   16.4   78.45   70.00   4.08   167.0   4.00   4.09   4.00   4
1000   7.17   -29.55   17.05   400   15.20   5.85   18.77   16.00   -0.10   21.0   10.00   10.00   16.20   1	10000   7.17   29.50   17.00   4.00   15.20   3.60   16.7   78.0000   0.10   21.0   10.000   1.000	100   150   17   17   17   17   17   17   17   1	STOCK   7.17   29.50   17.00   400   15.20   3.60   16.77   16.00   0.10   21.0   10.00   10	100   17   17   17   17   17   17   17	17.00   17.00   4.00   15.20   4.00   15.20   4.00   17.00   4.00   17.00   4.00   15.20   4.00   15.20   4.00   15.20   4.00   15.20   4.00   15.20   4.00   15.20   4.00   15.20   4.00   15.20   4.00   15.20   4.00   15.20   4.00   15.20   4.00   15.20   4.00   15.20   4.00   15.20   4.00   15.20   4.00   15.20   4.00	1, 10   28.30   17.00   4.00   16.20   4.50   17.00   4.01   27.00   4.01   27.00   4.01   27.00   4.01   27.00   4.01   27.00   4.01   27.00   4.01   27.00   4.01   27.00   4.01   27.00   4.00
10000   7.05   30.54   18.86   4.00   18.25   5.57   18.0   78.57   0.00   4.10   22.0   1.00   1.	10000   7.0   20.54   18.06   4.00   15.25   5.77   16.0   78.57   0.00   -0.10   22.0   1.0000   7.6   22.6   18.78   4.00   13.56   2.56   76.74   0.00   -0.10   22.0   2.50   2.56	10000	10000   7.16   236.61   18.28   4.00   15.28   5.60   70.20   4.10   22.0     10000   7.16   236.61   18.78   4.00   13.58   5.60   22   73.1287   0.00   4.10   13.50     10000   7.16   236.61   18.78   4.00   13.58   5.60   22   73.1287   0.00   4.10   13.50     10000   7.16   23.26   18.27   18.24   4.00   13.59   23.24   13.27   0.00   4.10   13.50     10000   7.16   23.20   18.27   4.00   13.50   13.20   13.20   13.20   13.20     10000   7.10   23.30   18.27   4.00   13.50   13.20   4.2 2.44   3   0.00   0.17   5.18     1223   0.03   3.52   1.04   0   1.43   0.56   4.2 2.44   3   0.00   0.17   5.18     1223   0.03   3.52   1.04   0   1.43   0.56   4.2 2.44   3   0.00   0.17   5.18     1223   0.03   3.52   1.04   0   1.43   0.56   4.2 2.44   3   0.00   0.07   5.18     1223   0.03   3.52   1.04   0   1.43   0.56   4.2 2.44   3   0.00   0.07   5.18     1223   0.03   3.52   1.04   0   1.43   0.56   4.2 2.44   3   0.00   0.07   5.18     1223   0.03   3.52   1.04   0   1.43   0.56   4.2 2.44   3   0.00   0.07   5.18     1223   0.03   3.52   1.04   0   1.43   0.56   4.2 2.44   3   0.00   0.07   5.18     1223   0.03   0.03   0.03   0.03   0.03   0.03   0.03   0.03   0.03     1223   0.03	10000   7.16   236.61   18.26   4.00   15.26   2.27   18.6   78.55   0.00   4.10   22.0     10000   7.16   236.61   18.78   4.00   13.58   2.58   20.8   76.00   4.10   13.00     10000   7.16   236.61   18.78   4.00   13.58   2.58   20.8   20.8   10.0   4.10   13.00     10000   7.16   23.26   18.27   4.00   13.58   2.58   14.7   78.061   0.00   4.10   12.00     10000   7.16   23.20   18.27   4.00   15.68   4.00   15.68   4.00   4.00   4.00   2.25     10000   7.10   28.30   18.27   4.00   15.68   6.04   15.6   77.007   0.00   0.12   41.8     1223   0.03   3.92   1.04   0   1.43   0.56   4.3   2.46413   0.00   0.07   54.8     1223   0.03   3.92   1.04   0   1.43   0.56   4.3   2.46413   0.00   0.07   54.8	10000   7.20   20.54   16.59   4.00   15.22   4.77   16.0   78.57   0.00   0.10   2.20	10000   7.20   30.54   18.09   4.00   18.22   4.77   18.0   78.37   0.00   4.10   22.0   10.00   1
10000   7.16   236.51   16.778   4.00   15.56   20.8   76.5074   0.00   -0.10   27.0	10000   7.16   28.65   18.78   4.00   18.55   5.86   20.8   78.8074   0.00   -0.10   27.0	10000   7.16   226.51   16.778   4.00   15.55   5.56   20.9   76.5074   0.00   -0.10   27.0	10000   7.16   226.51   16.778   4.00   15.55   5.56   20.6   76.5074   0.00   -0.10   27.0	10000   7.16   28.65   18.78   4.00   18.59   5.86   20.8   78.8074   0.00   -0.10   27.0	10000   7.16   -28.61   16.78   4.00   15.26   5.06   78.0774   0.00   0.10   17.0	10000
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1.00	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1, 2, 20, 37   18, 74   4,00   13,00   6,04   6,27   78,1281   0,00   -0,10   138,0	13.00   13.0	13.00   13.0
1	1224   7.10   28.30   18.27   400   15.69   6.04   15.8   77.7007   0.00   0.07   55.6	1				1,000   1,00
1.00	1,000   1,000   21,500   14,11   400   14,000   54,000   14,000   24,500   14,000	7.606 7.08 51.58 16.71 400 14.60 5.68 14.7 78.061 0.00 0.00 22.5 15.00 14.00 1	7544 7.10 28.30 18.27 400 15.69 4.4 7.7 7007 0.00 0.01 54.8 77.8 77.7007 0.00 0.01 54.8 77.8 77.8 77.8 77.8 77.8 77.8 77.8 7	7544 7.10 28.30 18.27 400 15.69 4.4 7 77.007 0.00 0.07 54.8 11.8 17.7007 0.00 0.07 54.8 11.8 11.8 11.8 11.8 11.8 11.8 11.8 1	7544 7.10 28.30 18.27 400 15.69 4.4 7 77.007 0.00 0.07 54.8 11.8 17.7007 0.00 0.07 54.8 11.8 11.8 11.8 11.8 11.8 11.8 11.8 1	7544 7.10 28.30 18.27 400 15.69 4.4 77.7007 0.00 0.07 54.8 11.8 17.7007 0.00 0.07 54.8 11.8 17.7007 0.00 0.07 54.8 11.8 11.8 17.7007 0.00 0.07 54.8 11.8 11.8 11.8 11.8 11.8 11.8 11.8 1
7544 7.10 28.30 18.27 400 15.69 6.04 15.6 77.7007 0.00 0.07 54.6 1.0 1.43 0.09 0.07 54.6 1.0 1.0 1.43 0.09 0.07 54.6 1.0 1.0 1.43 0.09 0.07 54.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	7544 7.10 28.30 18.27 400 15.89 6.04 15.6 77.7007 0.00 0.07 54.6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	75-44 7.10 28.30 18.27 400 15.69 6.04 15.6 77.7007 0.00 0.02 41.8 1222 0.03 3.92 1.04 0 1.43 0.56 4.8 2.44413 0.00 0.07 54.8 1.84 1.85 1.04 0 1.43 0.06 0.07 54.8 1.84 1.85 1.04 0 1.43 0.06 0.07 54.8 1.84 1.85 1.04 0 1.43 0.06 0.07 54.8 1.84 1.84 1.84 1.84 1.84 1.84 1.84 1	75-44 7.10 28.30 18.27 400 15.69 6.04 15.6 77.7007 0.00 0.12 41.8 1222 0.03 3.92 1.04 0 1.43 0.06 4.8 2.46413 0.00 0.07 54.8 1.8 1.2 41.8 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	7544 7.10 28.30 18.27 400 15.69 6.04 15.6 77.7007 0.00 0.12 41.8 1222 0.03 3.92 1.04 0 1.43 0.06 4.8 2.46413 0.00 0.07 54.8 1.8 1.22 0.03 0.00 0.07 54.8 1.8 1.22 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0
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EXHIBIT B Final Report Page 9 of 12

		0.255 0.289 84.06 28752 525 8950 800 30.77 15.01 700 14.88 5.13 18.01 0.00 0.30 24.0						77.1.50 77.1.5	15.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 8 6 2 2 2 7 8 8 6 8 2 8 2 8 2 8 8 8 8 8 8 8 8 8 8 8	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	12	20		2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20	28 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2003 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30		<del>▗▐▗▐▗╏▄┆▗▊▗▋▗▋▗▋▗▋▗▋▗▋▗▋▗▋▐</del> ▐▗▊▗▋▗▊░░░▋▍▗▗▕▝▋▕▘▗▗▕▝█▗▐▗▕▗		452.0 452.0 452.0 454.0 455.0 45
		0.286   0.286   0.484   2002   20.45   7000   0.00   0.15   0.1	0.289 0.284 0.406 28722 2225 0.525 7505 0.507 1450 770 1450 7458 0.10 0.20 0.20 0.20 0.20 0.20 0.20 0.20										•					13282							
		0.288    0.204    0.442    272819   224.5   7780    4.05    71.5   71.4   7700    14.2   77.4   7700    14.2   77.4   7700    14.2   7700    14.2   7700    14.2   7700    14.2   7700    14.2   7700    14.2   7700    14.2   7700    14.2   7700    14.2   7700    14.2   7700    14.2   7700    14.2   77.4   7700    14.2   77.4   7700    14.2   7700    14.2   7700    14.2   77.4   7700    14.2   7700    14.2   7700    14.2   7700    14.2   7700    14.2   7700    14.2   7700    14.2   7700    14.2   7700    14.2   77.4   7700    14.2   7700	0.288   0.204   0.402   28722   2846   7850   6.00   2.017   14.50   750   44.50   5.40   44.50   45.20   6.00   0.00															3 2	ন, কু 'বা'			•			1.1
		0.286   0.284   0.44.2   26.252   254.6   7860   8.09   3.06   14.59   700   14.45   14.52	Curso   Curso   Act, Cartier   Section   Sec							·				9	\$			3					5		
	CAIM	0.286   0.344   0.442   285222   284.6   7869   6.06   -56.65   14.24   700   14.24   4.45   17.5   74.695   0.00   -0.10   24.5   0.20   0.	0.286    0.289    0.400    267282    286.5    865.0    8.00    30.77    18.01    7700    14.45    7700	Ш		000	000	71306		<b>2</b>	200	ə	된				746	₹	158	\$	0.072	0.0061	_		5
0,000   0,072   4,47   1500   7,4   746   0,07   3,53   0,81   0   0,82   0,23   0,23   0,00   0,07	0.000   0.012   4.47   15000   7.4   744   0.07   3.53   0.81   0   0.62   0.26   0.20   0.07   1.0	0.289   0.204   0.44.02   286.02   284.0   286.00   44.0   28.00   24.00   2	0.286   0.289   44.06   287352   228.5   228.6   23.07   14.50   17.00   14.48   5.06   17.2058   0.00   0.30   24.0   24.5   0.289			-0.13	000	8.5416		4.68	13.78		1,70			_	[	200.8	283915		0.301	0.296	- 1		123
0.298 0.301 77.19 26.8915 276.2 6.133 0.05 -28.09 13.70 710 13.78 0.00 0.07 0.13 2 0.00 0.07 0.00 0.0	0.298 0.301 77.19 283915 282.6 0.133 0.05 -7.84 746 0.07 3.53 0.01 0 0.02 0.28 3.3 2.1366 0.00 0.07 1.0	0.286   0.384   0.384   0.48622   294.6   77860   4.08   770   4.485   7.09   4.41   74.495   0.00   0.10   24.5     0.725   0.725   0.725   2.725   0.287   2.84   5.10   2.15   1.424   770   11.50   1.45   715   715   715   715   715   715   715     0.725   0.725   0.725   2.727   2.727   2.85   2.15   2.15   1.42   770   11.50   2.15   2.15   0.10   0.10   0.10   0.10     0.725   0.235   0.235   2.727   2.225   2.85   7.25   1.42   770   11.50   3.15   3.15   715   715   715   715   715     0.235   0.235   0.235   7.42   2.727   2.25   2.85   7.25   1.24   770   11.50   3.15   3.15   715   715   715   715     0.235   0.235   0.235   2.15   2.15   7.25   1.24   770   11.50   3.15   3.15   715   715   715     0.235   0.235   7.25   2.25   2.25   7.25   2.25   7.25   1.24   770   11.50   3.15   715   715   715     0.235   0.235   7.25   2.25   2.25   7.25   7.25   1.24   770   11.50   3.15   715   715   715     0.235   0.235   7.25   2.25   7.25   2.25   7.25   7.25   1.24   7.25   7.25   1.25   7.25     0.235   0.235   7.25   2.25   7.25   7.25   7.25   7.25   7.25   7.25   7.25   7.25   7.25     0.235   0.235   7.25   2.25	0.286   0.289   0.406   287782   284.6   0.00   20.77   18.01   700   14.48   6.13   18.01   77.2538   0.00   0.10   23.0     0.289   0.280   0.404   286.222   284.6   28.0   28.0   28.4   28.1   28.1   28.2   28.0   28.4   28.1   28.1   28.2		L				$\vdash$		-	$\vdash$	-	-								$\vdash$	H		
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0.298 0.301 77.19 283915 282.6 8133 8.05 -28.09 13.70 700 13.78 4.68 15.6 78.5416 0.00 0.13 0.00 0.01 0.13 0.00 0.01 0.13 0.00 0.00	0.298 0.301 77.19 282915 282.8 8133 8.05 38.09 13.70 700 13.78 4.68 15.6 78.5418 0.00 0.07 13.7	0.280         0.304         0.4.02         286.22         786.0         4.6         4.1         78.666         0.00         -0.10         0.00         -0.10         2.0           0.280         0.306         0.04.0         286.0         7.06         3.16.7         14.34         7.00         14.34         4.00         0.10 <td>0.286         0.406         24.06         28752         28.06         20.77         14.00         74.00         14.00         5.13         14.00         77.2050         0.20         -0.20         0.20         -0.20</td> <td></td> <td>E</td> <td></td> <td>000</td> <td></td> <td></td> <td></td> <td></td> <td>8</td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td>1. S. P.</td> <td>1</td> <td></td> <td>DET H</td> <td></td> <td></td> <td></td> <td></td>	0.286         0.406         24.06         28752         28.06         20.77         14.00         74.00         14.00         5.13         14.00         77.2050         0.20         -0.20         0.20         -0.20		E		000					8			1			1. S. P.	1		DET H				
0.298	0.298	0.289         0.304         84.02         286.22         294.6         786.0         4.68         700         14.85         5.06         14.1         78.6955         0.00         0.10         23.0           0.280         0.386         0.442         272416         284.7         7880         4.15         13.46         700         14.34         4.85         15.2         80.8674         0.00         0.10         23.0           0.280         0.386         0.36         3.46.4         510         7.81         13.46         7.74         4.85         17.5         78.46         0.00         0.10         0.10         23.0           0.280         0.381         7.86         27.86         13.46         7.00         11.55         3.94         4.81         7.84         0.10	0.256         0.259         94.06         277.32         28.07         14.01         700         14.68         6.13         19.0         72.05         0.200         0.10         20.0	ľ	7	7 9 9	3			9	12.3% Some	2	2 0	7 7 7	2	15.00	25.6866	200		13	0.00		1		2
0.296	0.296   0.301   77.19   26.2915   22.2   6133   8.05   -20.09   13.70   13.7	0.289         0.344         64.02         286.23         28.46         7860         46.69         76.69         14.89         700         14.34         4.65         5.06         14.1         76.6955         0.00         -0.10         23.0           0.286         0.306         0.306         0.306         0.306         0.306         0.307         31.67         13.64         700         13.55         4.66         17.69         0.30         -0.10         23.0         0.30	0.295         0.206         0.00         0.00         20.77         14.00         7.46         5.13         14.00         7.70         14.00         5.13         14.00         7.70         14.00         5.10         17.2058         0.00         -0.10         23.0           0.200         0.304         0.304         2.304         3.16         7.62         14.89         700         14.00         5.00         0.00 <td>1</td> <td>- [</td> <td></td> <td>98</td> <td>22</td> <td>7 9</td> <td>3</td> <td>2 5</td> <td>2</td> <td>271</td> <td>2 S</td> <td>3) z</td> <td>300</td> <td></td> <td>2007</td> <td></td> <td>8 2</td> <td>0.20</td> <td>0.26</td> <td>2780</td> <td></td> <td>100</td>	1	- [		98	22	7 9	3	2 5	2	271	2 S	3) z	300		2007		8 2	0.20	0.26	2780		100
0.256	0.256 0.300 77.19 263915 282.8 8133 8.05 -28.09 13.70 13.75 3.88 8.4 78.254 0.00 -0.11 161.5 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.289         0.344         64.02         286.232         224.6         7860         4.6         78.6         4.1         78.6955         0.00         -0.10         23.0           0.289         0.306         80.42         2729 1         21.6         4.6         4.6         15.2         80.8074         0.00         -0.10         23.0           0.280         0.306         80.4         760         13.6         700         13.8         4.6         15.2         80.907         0.10         23.0           0.340         7.34         7.8         7.6         13.6         700         11.30         4.0         7.3         74.6         0.10         20.0         0.10         20.0         0.10         20.0         0.10         20.0         0.0         0.10         20.0         0.0         0.0         0.10         20.0         0.0	0.295         0.406         287382         284.06         287382         28.06         6.00         -0.206         14.89         700         14.89         5.06         44.1         72.69         0.00         -0.30         24.0           0.289         0.304         28.02         28.06         78.00         8.00         -28.62         14.89         700         14.24         5.06         0.00         -0.10         23.0           0.280         0.304         28.02         28.00         8.07         71.84         4.05         15.2         80.00         0.10         23.0           0.280         0.304         28.02         28.00         8.00         7.86         -15.20         13.27         700         11.85         4.07         7.3         74.64         -0.10         23.0           0.343         0.380         76.0         7.86         -15.80         7.86         -15.80         13.67         700         11.89         4.07         7.3         74.68         0.00         -0.10         23.0           0.343         0.346         5100         7.86         -15.80         13.47         700         11.35         3.4         74.62         0.00         -0.10         23.0 <td></td> <td></td> <td>2.5</td> <td>000</td> <td>8.5747</td> <td>722</td> <td>38</td> <td>13.40</td> <td>ğ</td> <td>260</td> <td>7</td> <td>8</td> <td>8</td> <td>200</td> <td>278.7</td> <td></td> <td>Z.Z.</td> <td>0.278</td> <td>707</td> <td>474.0</td> <td></td> <td>25.0</td>			2.5	000	8.5747	722	38	13.40	ğ	260	7	8	8	200	278.7		Z.Z.	0.278	707	474.0		25.0
0.224 0.276 71.73 25/410 278.7 10000 8.07 39.74 12.89 700 13.40 4.55 22.4 78.574 0.00 4.1 10.00 13.40 13.20 13.40	0.284   0.276   71.73   252410   278.7   19000   8.07   -38.74   12.69   770   11.40   4.55   22.4   78.574   0.00   0.10   22.5     0.287   0.286   6.0.40   278.7   19000   8.07   -38.74   12.69   770   11.32   3.86   8.4   76.234   0.00   0.11   161.3     0.286   0.200   -68.04   278.7   2	0.289         0.384         0.4.02         286.23         284.6         7860         28.62         14.88         700         14.34         4.65         4.61         78.69         0.00         0.10         23.0           0.286         0.306         80.42         278.6         778.6         31.15         13.46         700         14.34         4.65         17.51         18.60         0.10         23.0           0.789         0.730         78.74         2780         13.72         700         11.53         3.66         0.70         0.10         23.0           0.780         0.780         13.84         500         13.72         700         11.53         3.66         0.00         0.10         23.0           0.780         0.780         13.84         500         13.72         700         11.55         3.66         0.00         0.10         23.0           0.380         0.380         7.86         51.56         13.53         13.46         700         11.55         3.64         14.4         13.14         0.10         0.11         13.0         0.00         0.11         13.0         0.00         0.11         13.0         0.00         0.11         13.0         0	0.295         0.406         287382         282.6         8050         8.00         -20.7         14.88         700         14.88         5.10         17.2058         0.00         -0.30         0.30	П	П	-0.10	000	7,0030	16.5 7	384	11.30	8	305	13	N.	8.0	917	2	215080	M.	0.361	033	258.0		68.0
0.284   0.287   17.25   27.24   0.287   27.75   27.41   0.287   2.24   78.54   0.287	0.357   0.361   73.05   215000   338.7   3178   4.013   13.04   700   11.30   3.44   14.5   77.8539   0.00   0.10   77.5     0.224   0.276   71.05   25.410   278.7   10000   8.07   -38.74   12.69   700   13.40   4.55   22.4   78.5747   0.00   0.10   22.3     0.256   0.307   77.16   27.520   20.07   20.07   20.07   20.07   20.07   20.07   20.07   20.07   20.07     0.256   0.307   77.19   26.3915   222.6   8133   8.05   -28.09   13.70   13.78   4.69   13.5   78.511   20.00   0.07   1.0     0.256   0.301   77.19   26.3915   222.6   8133   8.05   -28.09   13.70   700   13.78   4.69   13.5   78.511   7	0.280         0.384         84.02         286.6         7850         3.68         14.38         5.06         14.1         78.695         0.00         0.10         23.0           0.280         0.386         0.366         0.366         31.67         14.24         700         14.34         4.65         15.2         0.00         0.10         23.0           0.390         0.396         0.367         31.67         13.67         13.67         700         13.67         70.64         0.10         0.10         23.0           0.340         0.396         76.34         2.366         2.366         31.57         700         11.53         3.66         17.54         0.10         0.10         23.0           0.340         0.396         7.66         2.369         7.86         13.46         700         11.55         3.66         0.00         0.10         0.10         23.0           0.350         0.366         2.360         7.86         3.04         13.17         700         13.26         4.67         70.00         0.11         3.0         0.10         0.11         13.0         0.00         0.11         13.0         0.11         13.0         0.10         0.11         1	0.296         0.206         0.406         287582         282.6         8050         8.00         -20.77         14.01         700         14.66         5.13         14.01         77.2058         0.00         -0.30         24.0           0.286         0.304         286.2         7880         8.00         -2.66         14.5         15.69         0.00         -0.10         23.0           0.286         0.306         28.02         28.02         3.145         14.24         700         14.65         15.69         0.00         -0.10         23.0           0.286         0.306         78.02         3.145         14.24         700         14.55         14.6         17.8         14.0         20.0         -0.10         23.0           0.343         0.396         78.16         51.00         7.86         -15.50         13.65         13.67         700         11.55         3.66         0.00         -0.10         23.0           0.343         0.386         78.06         28.06         3.146         13.61         700         11.55         3.66         10.0         -0.10         23.0           0.345         78.10         78.06         11.55         3.54         4.26 <td>l</td> <td></td> <td>l</td> <td>8</td> <td>6.7366</td> <td>17.8 7</td> <td>8.4</td> <td></td> <td></td> <td>8872</td> <td>न्न द्र</td> <td>23</td> <td>80</td> <td>8</td> <td>28</td> <td>253759</td> <td>=</td> <td>0.280</td> <td>0.292</td> <td>478.0</td> <td></td> <td>452.0</td>	l		l	8	6.7366	17.8 7	8.4			8872	न्न द्र	23	80	8	28	253759	=	0.280	0.292	478.0		452.0
0.282   0.250   73.21   253726   230.3   (800)   8.05   230.4   12.56   700   13.21   4.50   17.5   7677360   0.00   4.1     0.274   0.275   71.00   271000   278.7   317.8   8.01   20.11   12.40   700   13.21   4.50   17.5   7677360   0.00   4.1     0.274   0.275   71.00   271000   278.7   317.9   12.40   700   13.40   4.55   22.4   762740   0.00   4.1     0.275   0.275   71.00   278.0   278.0   289.0   279.1   215.0   12.40   700   13.40   4.55   22.4   762740   0.00   4.1     0.276   0.296   0.204   27750   278.0   289.0   279.1   215.0   12.40   700   12.77   4.29   18.1   72.35   0.00   4.1     0.276   0.296   0.204   27750   278.0   289.0   279.1   279.0	0.282   0.283   73.15   253779   2.84.3   12.84   770   13.27   4.50   17.5   78.796   0.00   0.11   23.5     0.284   0.387   73.05   210.00   2.84.7   21	0.289         0.304         0.402         286.023         286.0         7860         36.0         36.0         44.1         78.695         0.00         0.10         23.0           0.280         0.305         0.342         277.203         28.4.7         7890         28.6         31.5         14.24         700         14.34         4.65         17.5         78.6         0.10         23.0           0.320         0.326         0.326         78.7         7800         28.6         13.7         700         11.53         3.6         17.5         78.0         0.10         0.10         23.0           0.324         0.324         78.6         27.6         13.7         700         11.53         3.6         10.0         0.10         11.0         23.0           0.324         0.326         13.6         13.7         700         11.55         3.6         10.0         0.10         0.10         0.10         11.0           0.325         0.405         75.6         13.7         700         11.55         3.9         14.4         13.0         0.10         0.10         0.10         0.10         0.11         13.0         0.10         0.11         13.0         0.10	0.295         0.286         0.4.06         287322         28.6         78.00         44.6         51.3         46.0         77.2058         0.00         -0.20         0.00         -0.20         0.00         -0.20         0.00         -0.20         0.00         -0.20         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         0.10         23.0         0.00         0.10         23.0         0.00         0.10         23.0         0.10         23.0         0.10         23.0         0.00         0.10         23.0         0.10         0.10         0.10         23.0         0.10         23.0         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10				18	8 9	# 1	1.4 53.4			22	2	8	=	Ē	28	282810	Th. Th	0.287	0.296	477.0	. ?	452.0
0.296   0.287   73.27   226810   286.6   6150   6.16   4.15   770   13.26   770   13.26   4.45   14.5   16.0   0.16   0	0.226   0.257   73.77   250.810   258.05   6150   8.16   30.50   12.25   770   13.16   4.43   18.1   78.5190   0.00   0.10   23.0   0.220   0.227   73.25   0.227   73.25   0.227   0.227   73.25   0.227	0.289         0.304         84.02         286.6         7850         3.67         14.89         700         14.89         5.06         14.1         78.695         0.00         0.10         23.0           0.200         0.306         0.342         277208         284.7         7890         2.16         11.24         700         14.34         4.65         17.55         78.14         0.10         23.0           0.306         0.306         0.342         277208         284.7         7890         2.15.50         13.72         700         14.34         4.65         17.55         78.14         0.10         23.0           0.324         0.394         78.64         27.65         13.72         700         11.53         3.66         17.51         0.10         0.10         23.0           0.324         0.394         78.66         13.72         700         11.55         3.66         10.00         0.10         0.10         10.10         23.0           0.325         0.396         78.66         13.72         700         11.55         3.66         10.00         0.10         0.10         10.10         10.10         10.10         10.10         10.10         10.10         10.10 </td <td>0.295         0.286         0.4.06         287382         282.6         8050         8.00         -20.77         18.01         77.2058         6.13         18.01         77.2058         0.00         -0.20         0.00         -0.20         0.00         -0.20         0.00         -0.20         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         0.10         23.0         0.00         0.10         23.0         0.00         0.10         23.0         0.00         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10<td>İ</td><td>1</td><td>1</td><td>38</td><td></td><td>160</td><td>i S</td><td>2 5</td><td>1</td><td></td><td></td><td>1</td><td></td><td></td><td>ı</td><td>7</td><td></td><td>787</td><td>223</td><td>25.0</td><td></td><td>500</td></td>	0.295         0.286         0.4.06         287382         282.6         8050         8.00         -20.77         18.01         77.2058         6.13         18.01         77.2058         0.00         -0.20         0.00         -0.20         0.00         -0.20         0.00         -0.20         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         -0.10         23.0         0.00         0.10         23.0         0.00         0.10         23.0         0.00         0.10         23.0         0.00         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10 <td>İ</td> <td>1</td> <td>1</td> <td>38</td> <td></td> <td>160</td> <td>i S</td> <td>2 5</td> <td>1</td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td>ı</td> <td>7</td> <td></td> <td>787</td> <td>223</td> <td>25.0</td> <td></td> <td>500</td>	İ	1	1	38		160	i S	2 5	1			1			ı	7		787	223	25.0		500
0.256 0.267 73.23 219822 3.54.4 55.50 7.99 3.10.3 13.13 700 11.40 3.62 12.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.255 0.254 7.5.2 27.80 2.80.2 3.4.4 62.0 7.20 13.15 700 13.16 4.43 16.1 76.5100 0.00 0.01 17.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.280         0.304         0.40.2         286.22         286.6         7850         4.6         78.6         74.1         78.695         0.0         0.10         23.0           0.280         0.306         0.306         0.306         0.307         16.27         16.27         16.27         16.27         16.27         16.20         10.0         0.10         23.0         0.00         0.10         23.0         0.306	0.295         0.296         0.4,06         287322         282.6         8050         8,00         -20,77         14,01         700         14,86         5,13         140,17,2058         0.00         -0.30         24,0           0.296         0.304         84,02         286,02         28,62         14,89         700         14,86         5,06         14,1         78,695         0.00         -0.10         23,0           0.206         0.306         84,02         27,02         3,167         14,26         700         14,25         36,0         0.10         20,10         23,0           0.706         0.306         84,02         27,00         31,6         700         14,34         4,65         17,55         36,0         0.10         20,10         2			-	8	25.	82	8		- 1	장:	-							100	0000			3 5
CASH   CASH	CATO   CATO	0.289         0.304         84.02         286.6         7860         3.6.8         14.89         700         14.85         5.06         14.1         78.695         0.00         0.10         23.0           0.280         0.306         60.42         272718         284.7         7890         8.07         31.87         14.24         700         14.34         4.63         17.5         18.60         0.00         -0.10         23.5           0.306         0.306         80.42         27271         8800         8.14         31.15         13.46         700         11.53         3.66         17.5         18.00         0.00         -0.10         23.0           0.343         0.394         78.03         22.036         13.65         13.50         13.55         700         11.55         3.66         17.5         74.40         0.00         -0.10         23.0           0.350         0.364         78.66         27.67         13.47         700         11.35         3.64         17.484         -0.10         10.10         20.0         -0.10         10.10         10.0         -0.10         10.10         10.0         -0.10         10.10         10.10         10.10         10.10         1	0.289         0.4.06         287322         282.6         8050         8.00         -20.77         18.01         700         14.86         5.13         19.01         77.2058         0.00         -0.30         24.0           0.280         0.304         84.02         286.02         30.77         18.67         700         14.55         5.06         14.1         78.695         0.00         -0.10         23.0           0.280         0.306         80.42         27.207         800         8.07         31.67         700         14.55         5.06         14.1         78.695         0.00         -0.10         23.0           0.720         0.720         18.24         78.77         800         8.14         31.15         13.65         700         11.55         3.06         17.5         74.69         0.00         -0.10         23.0           0.324         0.394         78.00         18.67         700         11.55         3.06         10.00         -0.10         20.10         20.0           0.326         0.346         78.00         7.86         73.67         700         11.35         3.06         10.00         -0.10         20.10         20.0         20.0         20.10				0.00	9.1384	9.3 7	38	11.58	l	3.15						27316		9	22	200	- 4	3
0.226 0.234 7.466 282.4 820.0 8.03 13.15 770 13.54 4.59 0.00 0.01 0.00 0.01 0.02 0.02 0.02 0.02	0.335   0.346   7.24   271316   3.35.9   0.650   0.615   3.12   3.13   7.00   13.24   4.59   20.7   7.446   20.2   4.17   2.40   2.40   0.25   0.24   7.446   2.22   2.40   2.40   13.24   4.59   2.40   0.20   4.17   2.40   0.20   0.24   0.	0.289         0.304         84.02         286.02         7860         3.6.87         14.89         700         14.85         5.06         14.1         78.695         0.00         0.10         23.0           0.280         0.286         0.206         0.206         0.207         18.27         18.00         31.15         13.46         700         14.34         4.45         15.2         0.00         0.10         23.0           0.290         0.206         0.206         27.2         18.60         27.2         13.65         17.5         18.0         0.00         0.10         23.0           0.343         0.394         78.33         220381         34.64         5100         7.86         13.57         700         11.53         3.6         18.0         0.00         -0.10         23.0           0.354         3.341         58.03         7.86         71.50         700         11.33         700         11.33         3.6         70.0         -0.10         0.00         -0.10         18.0         0.00         -0.10         18.0         0.00         -0.10         18.0         0.00         -0.10         18.0         0.00         0.00         0.10         0.10         0.10	0.289         0.4,06         287322         282.6         8050         8,00         -20,77         14,01         700         14,68         6.13         140         77,2058         0.00         -0.20         0.00         -0.20         24.0         77,2058         0.00         -0.20         0.00         -0.20         0.00         -0.10         23.0         0.00         -0.			ı	0.00	6.4072	8.6)	427	12.48	l	3.18	1	$\cdot$			П	240942		0.324	0.310	486.0		450.0
0.226 0.226 7.237 7.227 2.22810 2.224 2.220 7.237 13.124 7.20 13.14 4.26 2.27 6.27 7.224 0.00 0.01 0.228 0.226 7.237 2.237 2.237 2.237 13.124 7.20 13.124 0.00 0.13.14 4.26 2.224 2.224 2.220 7.237 13.23 2.23 13.23 7.23 13.24 7.20 13.14 4.26 2.224 2.224 2.224 2.225 0.226 0.226 7.227 7.227 2.22810 2.226 2.224 2.226 0.226 7.227 7.227 2.22810 2.226 2.224 2.227 2.224 2.226 0	0.316   0.324   74.35   200042   30.66   66600   6.05   51.54   13.10   7700   13.64   6.27   6.68   77.04	0.289         0.304         84.02         286.02         7860         36.02         14.89         700         14.85         5.06         14.1         78.695         0.00         0.10         23.0           0.280         0.306         0.042         27.29         0.306         0.042         27.29         0.00         0.00         0.00         0.10         23.0           0.320         0.324         78.74         500         24.14         31.15         13.46         700         14.34         4.60         17.5         76.194         0.00         0.10         23.0           0.324         0.324         78.04         500         24.15         13.15         700         11.53         3.06         18.0         0.00         0.10         23.0           0.326         0.361         26.00         7.60         13.17         700         11.53         3.06         18.0         0.00         0.10         18.0         0.00         0.10         18.0         0.00         0.10         18.0         0.00         0.10         18.0         0.00         0.10         18.0         0.00         0.10         18.0         0.00         0.10         18.0         0.00         0.10         18	0.295         0.406         287322         282.6         8050         8.00         -20.77         18.01         700         14.66         5.13         19.01         77.2058         0.00         -0.30         24.0           0.286         0.304         0.44.2         27.27         28.67         78.60         24.65         700         14.45         5.06         14.1         78.695         0.00         -0.10         23.0           0.286         0.305         0.305         0.305         14.2         78.695         0.00         -0.10         23.0           0.790         0.306         0.305         27.20         284.7         7800         8.14         31.15         700         14.34         4.65         17.55         80.00         -0.10         23.0           0.700         0.306         0.306         27.20         28.00         28.00         28.15         31.15         700         11.53         3.66         17.55         70.00         -0.10         20.10         20.10         20.10         20.10         20.10         20.10         20.10         20.10         20.10         20.10         20.10         20.10         20.10         20.10         20.10         20.10         20.10				9	2007	77	3	10	8	331	ı	1			IJ	251356	74.36	0.310	0.287	463.0		458.0
C.286   C.301   74.38   251356   296.6   7700   736.4   13.11   7700   13.28   4.45   14.4   12.287   0.00   -0.1     C.286   C.284   73.25   26136   262.4   262.0   23.25   13.15   700   13.28   4.27   4.45   13.19   0.00   -0.1     C.286   C.284   73.25   262.0   262.4   262.0   7.97   33.21   700   13.24   4.57   13.19   0.00   0.1     C.286   C.284   73.25   262.0   262.4   262.0   262.1   262.0   262.1   262.0   262.1   262.0   262.1   262.0   262.1   262.0   262.1   262.0   262.1   262.0   262.1   262.0   262.1   262.0   262.1   262.0   262.1   262.0   262.1   262.0   262.1   262.0	0.286   0.284   7.15   26.26   7700   7.86   30.45   13.11   7700   13.28   4.66   14.4   82.587   0.00   0.11   22.5     0.286   0.284   7.15   26.14   26.24   26.20   0.28   3.12   13.15   700   13.28   4.57   14.5   4.77   4.2   0.00   0.10   27.5     0.286   0.284   7.15   26.24   26.20   2.77   2.41   13.14   770   13.28   4.57   14.1   77.50   0.00   0.10   27.5     0.285   0.284   7.15   26.24   26.20   2.77   2.41   13.14   770   13.28   4.57   14.1   77.50   0.00   0.10   27.5     0.285   0.287   7.15   26.24   8.20   7.28   7.10   13.14   770   13.28   4.57   14.1   77.50   0.00   0.10   27.5     0.285   0.287   7.15   26.24   8.20   7.28   7.10   7.20	0.289         0.304         0.4.02         296.62         73.00         6.06         27.62         14.89         700         14.89         5.06         14.1         78.6956         0.00         0.10         23.0           0.200         0.306         0.0.42         27.2018         254.7         7890         8.07         33.67         700         14.34         4.65         15.2         0.007         0.10         20.10	0.289         0.4.06         287382         282.5         8050         8.00         -20.77         18.01         700         14.86         5.13         19.07         70.00         14.86         5.13         19.07         70.00         14.86         5.13         19.07         70.00         14.86         5.06         14.17         78.66         0.00         -0.10         20.10	1	1	ı	900	77.557	15.6	100	1.55	8	997	L		ı	L	l.	278823	75.18	0.380	0.338	558.0	•	466.0
C.259   C.350   75.16   278022   34.18   51.00   7.36   34.57   13.46   770   11.55   3.54   15.58   7.05   0.00   0.11     C.210   C.234   7.35   24.05   27.25   25.05   27.25   23.15   770   12.46   4.27   24.5   20.00   0.10     C.256   C.256   7.24   27.25   20.05   20.00   27.15   23.15   770   12.46   4.27   24.5   20.00   0.10     C.256   C.256   7.24   27.25   20.05   27.2   23.15   770   12.46   4.27   24.5   20.00   0.10     C.256   C.256   7.24   27.25   20.00   7.5   20.25   23.15   770   13.25   4.25   20.00   0.10     C.256   C.256   7.25   7.25   27.25   20.00   7.5   20.25   20.25   7.2	0.339   73.46   278203   34.18   9100   756   30.99   13.46   7700   13.78   3.59   14.50   7.50   4.11   174.00   13.78   0.310   0.11   174.00   0.310   0	0.289         0.304         0.4.02         296.52         23.66         7850         6.06         27.682         14.89         700         14.85         5.06         14.1         78.695         0.00         -0.10         23.0           0.280         0.306         0.04.2         27.271         18.00         8.07         31.67         14.24         700         14.34         4.65         17.25         80.3674         0.00         -0.10         23.0           0.290         0.390         78.74         2860         8.14         -31.15         13.46         700         13.65         17.55         78.66         0.00         -0.10         23.5           0.394         0.394         78.67         23.66         13.72         700         11.55         78.66         17.55         78.66         0.00         -0.10         23.5           0.394         0.394         78.67         13.75         700         13.27         78.67         13.77         13.67         13.77         14.60         13.77         14.60         13.77         14.60         14.60         14.60         14.60         14.60         14.60         14.60         14.60         14.60         14.60         14.60         14.60 <td>0.289         0.4.06         28/7352         28/2.6         8050         8.00         -20,77         18.01         700         14.66         6.13         19.01         77.2058         0.00         -0.20         1.00         -0.20         1.00         1.00         1.00         -0.20         2.00         1.00         1.00         0.00         2.0</td> <td>l</td> <td>L</td> <td>11</td> <td>000</td> <td>78237/</td> <td>28.0</td> <td>7</td> <td>1.83</td> <td>8</td> <td>3.67</td> <td>L</td> <td>1</td> <td>l</td> <td>1</td> <td>ı</td> <td>245106</td> <td>75.46</td> <td>0.405</td> <td>0350</td> <td>564.0</td> <td></td> <td>457.0</td>	0.289         0.4.06         28/7352         28/2.6         8050         8.00         -20,77         18.01         700         14.66         6.13         19.01         77.2058         0.00         -0.20         1.00         -0.20         1.00         1.00         1.00         -0.20         2.00         1.00         1.00         0.00         2.0	l	L	11	000	78237/	28.0	7	1.83	8	3.67	L	1	l	1	ı	245106	75.46	0.405	0350	564.0		457.0
0.250   0.445   75.46   215(10a   350.0   6100   6.00   3.44.2   13.47   700   11.55   3.54   3.54   14.6   27.597   0.00   0.11     0.250   0.445   75.48   27156   274.2   700   716   30.37   13.41   700   11.55   3.54   14.6   77.597   0.00   0.11     0.250   0.254   73.42   27156   275.2	C.256   C.445   T.5.46   255.06   256.06   256.06   256.07   256	0.289 0.304 84.02 286292 254.6 7880 4.06 28.82 74.89 700 44.85 5.06 44.1 78.895 0.00 -0.10 23.0 0.290 0.306 0.306 60.42 272919 254.7 7880 4.07 31.87 14.24 700 14.34 4.85 15.8 15.80 0.00 -0.10 24.5 0.290 0.305 18.74 286731 288.7 7 8880 4.14 31.15 13.46 700 13.83 4.64 17.5 78.184 0.00 -0.10 22.0 0.343 0.384 78.33 220281 348.4 5180 7.85 15.50 13.77 770 11.53 3.56 14.0 77.484 0.01 -0.71 184.0	0.289         0.4.06         28/7382         28/2.6         8050         8.00         -20,77         18.01         700         14.86         5.13         18.01         77.2058         0.00         -0.20         0.00         -0.20         0.00         -0.20         0.00         -0.20         14.89         700         14.85         5.06         14.1         78.6956         0.00         -0.10         23.0           0.200         0.300         0.001         23.67         73.80         3.67         73.87         14.24         700         14.85         5.06         14.1         78.6956         0.00         -0.10         23.0           0.200         0.300         0.300         3.000         3.1.67         13.46         700         14.53         4.65         15.2         80.000         -0.10         23.0           0.300         0.300         3.000         3.1.67         3.13.64         700         13.60         4.60         13.60         0.00         -0.10         23.0           0.303         0.304         3.000         3.000         3.1.67         3.000         3.000         -0.10         23.0           0.303         0.304         3.000         3.000         3.000	ı			000	1365		4.07	1.00	Ş	35.5	L	L			Н	227302	75.60	0.361	0.328	547.0		454.0
0.250	0.250	0.289 0.304 84.02 286292 254.6 7860 4.06 28.82 74.89 700 44.85 5.06 44.1 78.895 0.00 -0.10 23.0 0.290 0.306 60.42 272919 284.7 7880 8.07 31.87 14.24 700 14.34 4.83 15.8 184.3 10.0 0.00 23.0 0.30 0.30 0.30 0.30 0.30 0	0.295 0.289 84.06 287382 282.5 8050 8.00 -20.77 15.01 14.88 5.13 18.0 77.2058 0.00 -0.30 24.0 0.289 0.30 6.30 24.0 0.289 0.30 6.30 286.2 284.6 7880 8.00 -28.82 14.89 700 14.85 5.06 14.1 78.895 0.00 -0.10 23.0 0.280 0.30 60.42 272919 284.7 7880 8.07 31.87 14.24 700 14.34 4.85 15.8 184.8 0.00 0.30 0.00 0.10 24.5 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.	l	L	1111	00	146		398	23,5	8	372							78.33	0.384	0.343	561.0		454.0
0.329	0.354   0.384   76.05   37.026   34.4   5100   726   -15.50   13.77   700   11.25   3.66   14.0   77.454   -0.01   -0.77   144.0   -0.20   0.405   74.6   27.702   23.2   13.5   700   11.25   3.44   4.77   73.8   0.00   0.01   14.0   -0.11   14.0   -0.11   14.0   -0.20   0.405   74.6   24.5   13.4   700   13.2   3.44   4.5   77.57   0.00   0.11   14.0   -0.11   14.0   -0.20   0.22   0.22   -0.2	0.299 0.304 84.02 286222 254.6 7860 4.06 28.62 74.89 700 44.85 5.06 44.1 78.6956 0.00 0.10 23.0	0.295 0.289 84.06 287382 282.5 8050 8.00 -20.77 95.01 700 94.88 5.13 95.0 77.2058 0.00 -0.30 24.0 0.289 0.204 84.02 28222 254.6 7860 8.06 -26.82 74.89 700 94.85 5.06 94.1 76.6856 0.00 -0.10 23.0 0.206 0.306 80.42 272919 254.7 7880 8.07 31.87 14.24 700 14.34 4.03 15.78 80.9674 0.00 -0.10 24.5		L		0	78 TO45	17.5	4.68	13.63	ğ	3.46	П	L		Ŀ	Ш		76.74	0.203	0 280	477.0	ı f	450.0
0.343 0.344 78.38 78.27	0.343   0.344   78.5   27.502   32.5   8890   7.86   51.5   13.5   700   11.50   4.6   17.5   78.6   4.0   0.10	0.25 0.30 6.304 64.02 828282 52848 7850 8.05 88.41 58.85 84.8	0.299 0.304 84.06 287382 259.56 8090 8.00 30,777 98.01 700 94.88 5.13 98.07 7.2058 0.00 -0.30 24.0 0.299 0.304 84.02 286222 254.6 7850 8.06 35.852 14.88 700 94.85 5.06 14.1 78.6856 0.00 -0.10 23.0	l				10.9674	15.2		75.75	200	14.24					l		60.42	0.306	0.296	482.0	1	458.0
0.200 0.300 0.400 0.400 0.100	0.329 0.300 0.442 72291 224.7 7789 0.407 31687 14.24 7700 14.24 4.42 15.2 34.6 17.5 77.0 14.2 0.200 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		0.25 0.20 0.00 0.20 0.20 0.20 0.00 0.00		l		000			1,00		200	1.89							84.02	0.304	0.299	479.0		462.0

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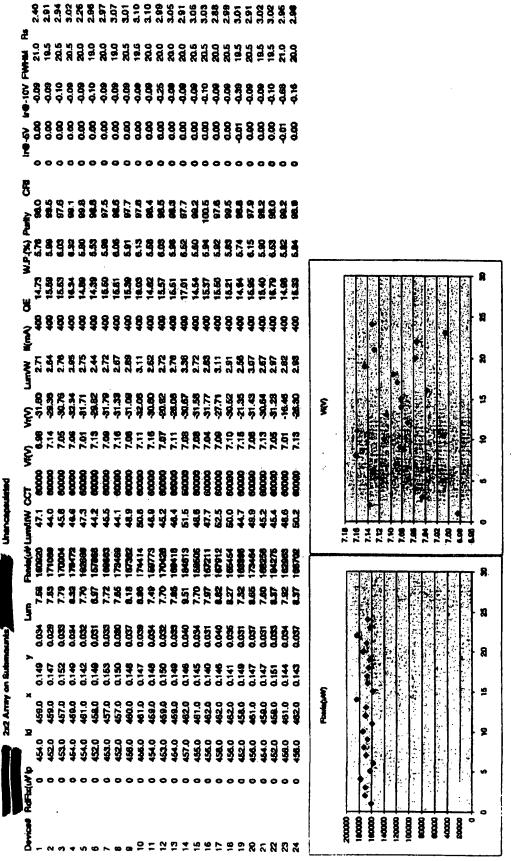


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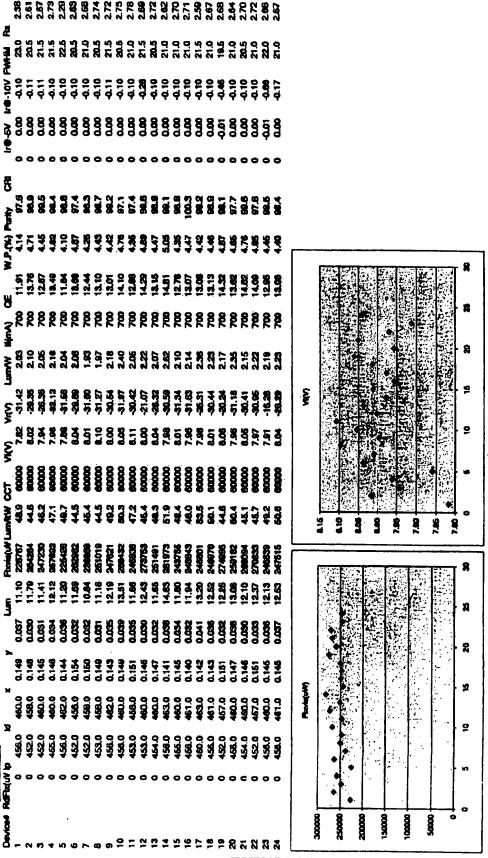


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